

Math 9 Course Outline

Teacher: Mr. Birrell Room

Course Content

Chapter One: Symmetry and Surface Area

Line Symmetry
Rotation Symmetry and Transformations
Surface Area

Chapter Two: Rational Numbers

Comparing and ordering Rational Numbers
Problem Solving with Rational Numbers in Decimal Form
Problem Solving with Rational Numbers in Fraction Form
Determining Square Roots of Rational Numbers

Chapter Three: Powers and Exponents

Using Exponents to Describe Numbers
Exponent Laws
Order of Operations
Using Exponents to Solve Problems

Chapter Four: Scale Factors and Similarity

Enlargements and Reductions
Scale Diagrams
Similar Triangles
Similar Polygons

Chapter Five: Introduction to Polynomials

The Language of Mathematics
Equivalent Expressions
Adding and Subtracting Polynomials

Chapter Seven: Multiplying and Dividing Polynomials

Multiplying and Dividing Monomials
Multiplying Polynomials by Monomials
Dividing Polynomials by Monomials

Evaluation

Semester Work	30%
Unit Exams	55%
Final Exam	15%

Expectations

1. Be on time. Have your books open and ready to go.
2. Have all materials present and ready to use. This includes your agenda, pencils, eraser, and calculator.
3. Raise your hand to ask/answer questions.
4. Use class time wisely to complete work.
5. Do not disrupt presentations or work time.
6. Do not be afraid to ask a question.
7. Please write math exams, quizzes, and assignments in pencil. Write neatly so that the teacher can read it without trouble.
8. We will use computers periodically. Use the computers appropriately. Do not download any software. You will lose your computer privileges.
9. Follow school policy in regards to dress, attendance, and conduct.
10. If you make a mess, clean it up.
11. If you are absent, it is your responsibility to find out the material you missed. You may ask the teacher, a classmate, or check the binder. Assigned homework will be due the following day.

Daily Routine

When you enter the classroom, complete the bellwork and follow any instructions on the board. At the beginning of the class there will be a short question and answer period about previously covered material. The rest of the class will consist of the presentation of new material and work time. Homework checks may occur at any time.

Materials

For this class you will need pencils, erasers, lots of loose leaf paper, a ruler, a calculator, and a binder. A geometry set also does not hurt.

Resources

Class wiki: <http://mrbirrell.wikispaces.com/>

Missed Evaluations

Any missed evaluations are expected to be completed the day the student returns.

Unexcused absences will result in a mark of zero for any work due or completed on that day.

Course Finalization

9:00 – 11:30 Comprehensive written final exam containing the course content.